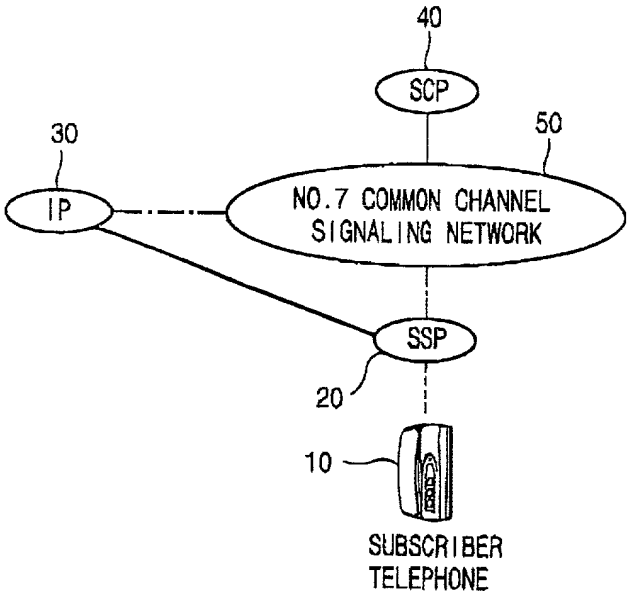
FIG. 1
BACKGROUND ART



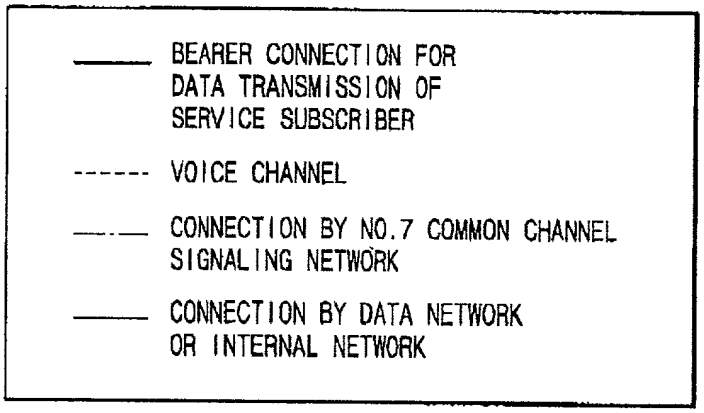


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FIG. 2
BACKGROUND ART

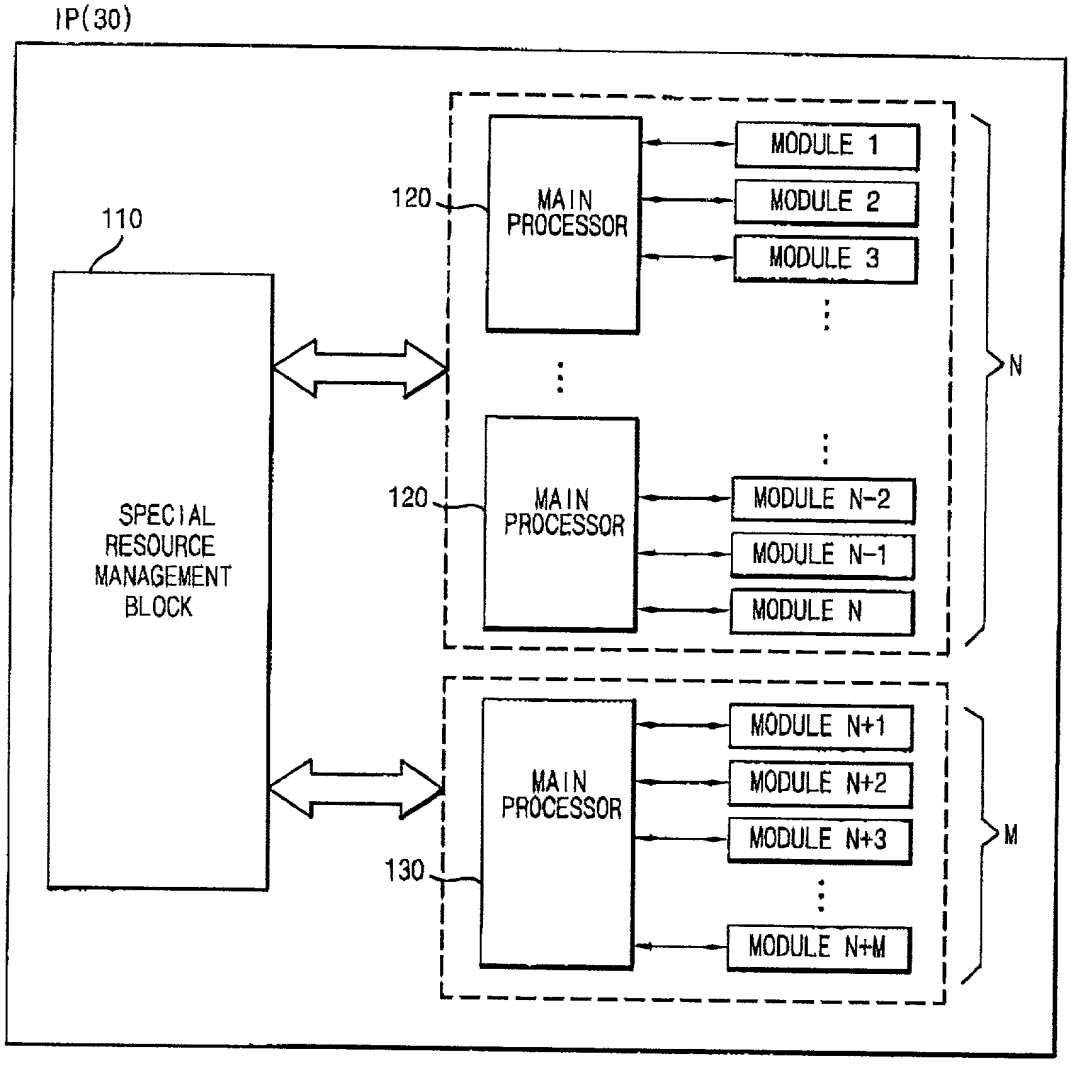


FIG. 3

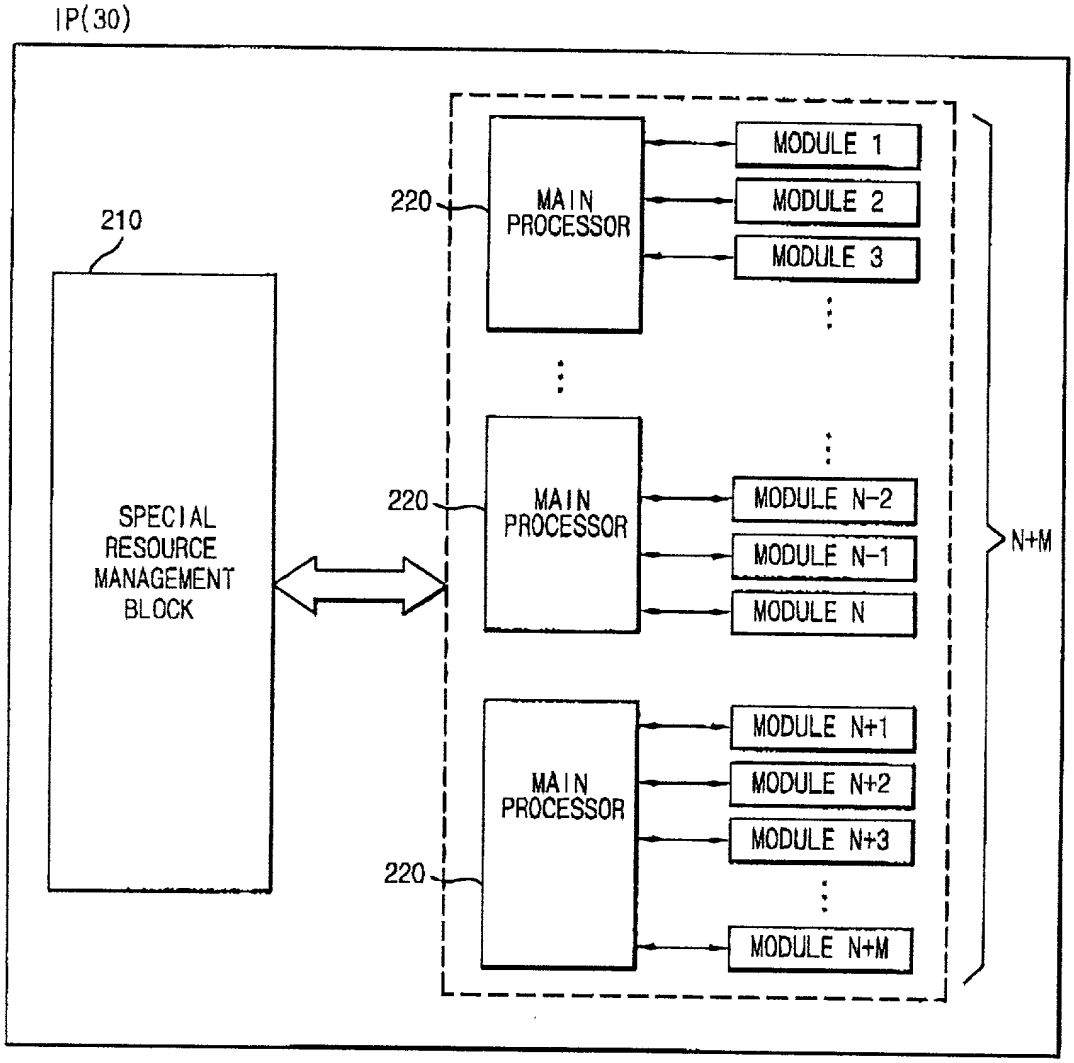

IP(30)
210
SPECIAL RESOURCE MANAGEMENT BLOCK
220
MAIN PROCESSOR
220
MAIN PROCESSOR
220
MAIN PROCESSOR
MODULE 1
MODULE 2
MODULE 3
MODULE N-2
MODULE N-1
MODULE N
MODULE N+1
MODULE N+2
MODULE N+3
MODULE N+M
N+M

FIG. 4

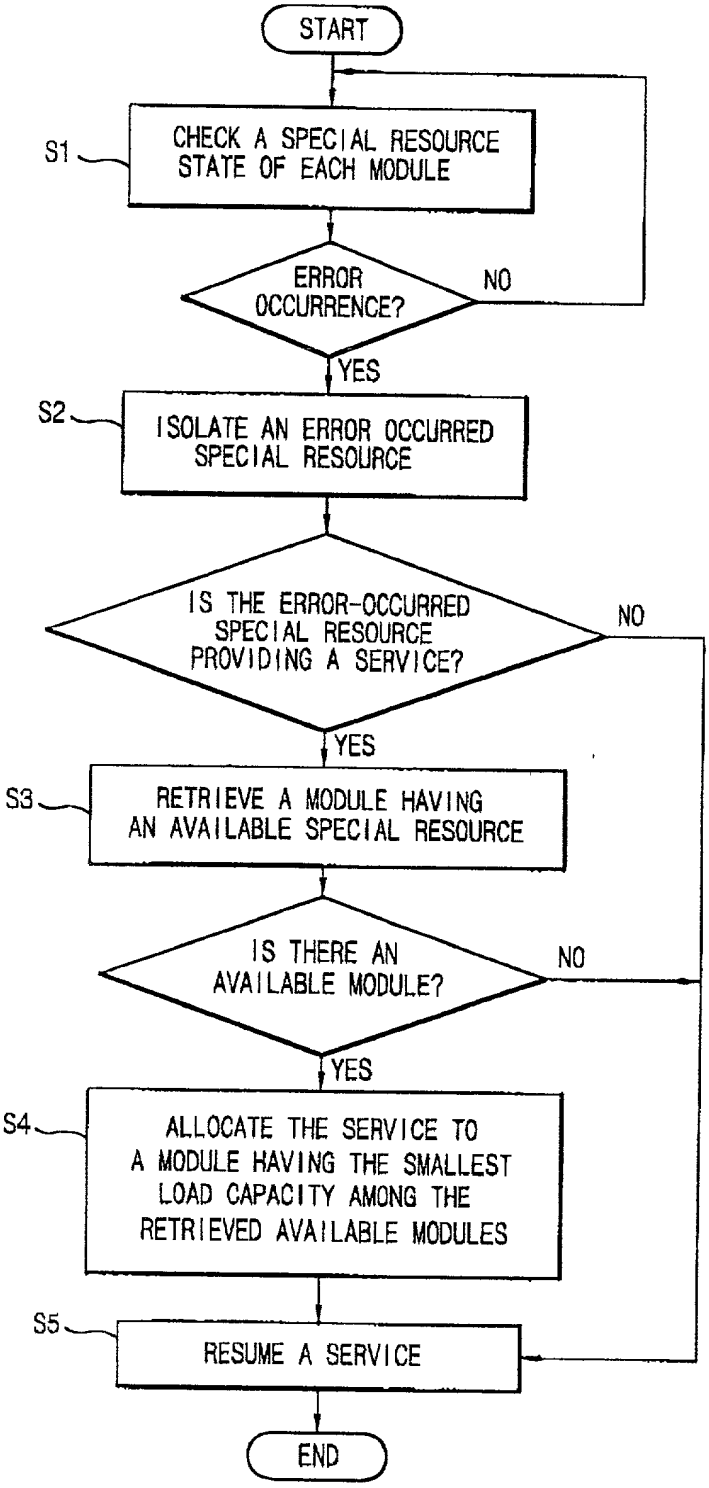

START
S1
CHECK A SPECIAL RESOURCE STATE OF EACH MODULE
ERROR OCCURRENCE?
NO
YES
S2
ISOLATE AN ERROR OCCURRED SPECIAL RESOURCE
IS THE ERROR-OCCURRED SPECIAL RESOURCE PROVIDING A SERVICE?
NO
YES
S3
RETRIEVE A MODULE HAVING AN AVAILABLE SPECIAL RESOURCE
IS THERE AN AVAILABLE MODULE?
NO
YES
S4
ALLOCATE THE SERVICE TO A MODULE HAVING THE SMALLEST LOAD CAPACITY AMONG THE RETRIEVED AVAILABLE MODULES
S5
RESUME A SERVICE
END

FIG. 5

SPECIAL RESOURCE STATE INFORMATION MESSAGE

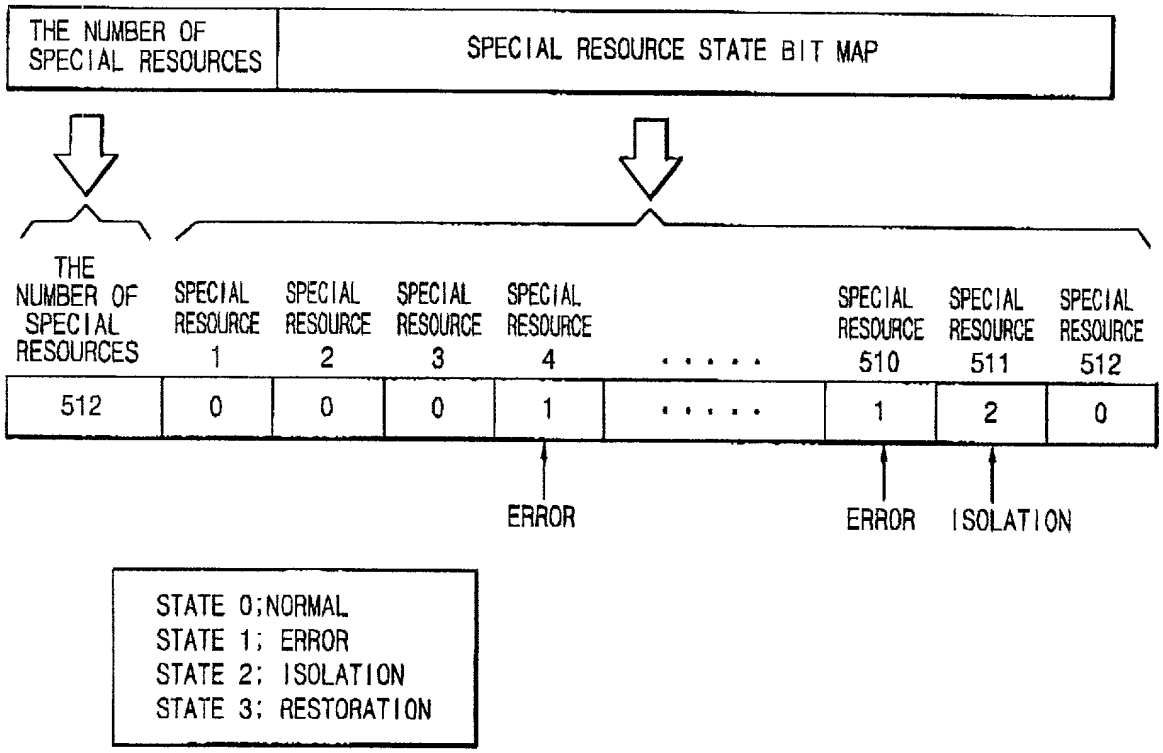
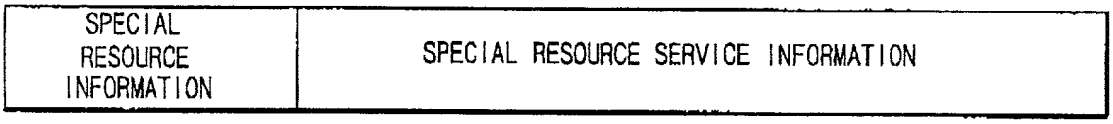


FIG. 6

SPECIAL RESOURCE MULTIPLEXING MESSAGE